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# **Inventor Information for 10/771494**

Inventor Name	City	State/Country
HWANG, CHAN-SOO	YONGIN-SI	KOREA, REPUBLIC OF
NAM, SEUNG-HOON	SEOUL	KOREA, REPUBLIC OF
CHUNG, JAE-HAK	SEOUL	KOREA, REPUBLIC OF
KIM, YUNG-SOO	PUNDANG-GU	KOREA, REPUBLIC OF

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### **Inventor Name Search Result**

Your Search was:

Last Name = HWANG First Name = CHAN-SOO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09443156	Not Issued	161	11/18/1999	DATA DETECTING APPARATUS USING SAMPLE INTERPOLATION AND METHOD THEREFOR	HWANG, CHAN-SOO
10191499	7221716	150	07/10/2002	SIGNAL RECEIVING APPARATUS AND METHOD ADAPTED FOR USE WITH A TIME-VARIANT CHANNEL	HWANG, CHAN-SOO
10294844	Not Issued	41	11/15/2002	Apparatus and method for efficiently transmitting and receiving multicast data	HWANG, CHAN-SOO
10383658	Not Issued	83	03/10/2003	Apparatus and method for up-link data communication	HWANG, CHAN-SOO
10402945	Not Issued	41	04/01/2003		HWANG, CHAN-SOO
10546081	Not Issued	30	06/30/2006	Method of reducing papr in multiple antenna ofdm communication system and multiple antenna ofdm communication system using the method	HWANG, CHAN-SOO
10606430	Not Issued	41	06/25/2003	Orthogonal frequency division multiplexing communication method and apparatus adapted to channel characteristics	HWANG, CHAN-SOO
10607106	Not Issued	61	06/25/2003	Method and apparatus for compensating for the frequency offset in interleaved frequency division multiple access	HWANG, CHAN-SOO
10630215	Not Issued	93	07/30/2003	APPARATUS AND METHOD FOR GENERATING SPACE-TIME TRELLIS CODE FOR MAXIMIZING SPACE-TIME DIVERSITY GAIN AND CODING	HWANG, CHAN-SOO

			,	GAIN IN A MOBILE	l li
10650857	7113808	150	08/29/2003	COMMUNICATION SYSTEM  APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING SIGNALS USING MULTI-ANTENNAS	HWANG, CHAN-SOO
10674735	Not Issued	93	09/30/2003	APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING SIGNALS USING MULTIPLE ANTENNAS IN MOBILE COMMUNICATION SYSTEMS	HWANG, CHAN-SOO
10681937	Not Issued	71	10/09/2003	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	HWANG, CHAN-SOO
10691903	Not Issued	71	10/23/2003	Transmission/reception apparatus for a wireless communication system with three transmission antennas	HWANG, CHAN-SOO
10692894	Not Issued	93	10/24/2003	TRANSMITTER AND RECEIVER PROVIDED IN WIRELESS COMMUNICATION SYSTEM USING FOUR TRANSMITTING ANTENNAS	HWANG, CHAN-SOO
10692896	Not Issued	93	10/24/2003	RECEIVING APPARATUS IN A RADIO COMMUNICATION SYSTEM USING AT LEAST THREE TRANSMITTER ANTENNAS	HWANG, CHAN-SOO
10694197	Not Issued	61	10/27/2003		HWANG, CHAN-SOO
10695493	Not Issued	41	10/28/2003	Data transmission/reception apparatus and method for achieving both multiplexing gain and diversity gain in a mobile communication system using space-time trellis code	HWANG, CHAN-SOO
10695579	Not Issued	71	10/28/2003	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING A PILOT SEQUENCE IN A MOBILE COMMUNICATION SYSTEM USING SPACE-TIME TRELLIS CODE	HWANG, CHAN-SOO
10702045	Not Issued	61		Network architecture for mobile communication system and communication method using the	HWANG, CHAN-SOO

				same	
10702287	Not Issued	41	11/06/2003	Method of managing network operation information in a mobile communication system	HWANG, CHAN-SOO
10705118	Not Issued	71	11/07/2003	Frequency reuse method in an orthogonal frequency division multiplex mobile communication system	HWANG, CHAN-SOO
10756073	Not Issued	51	01/12/2004	Method and apparatus for estimating a signal sequence in a MIMO-OFDM mobile communication system	HWANG, CHAN-SOO
10771494	Not Issued	71	02/04/2004	Apparatus and method for transmitting/receiving differential STBC using channel power	HWANG, CHAN-SOO
10830360	Not Issued	30	04/22/2004	Method and apparatus for determining a shuffling pattern based on a minimum signal to noise ratio in a double space-time transmit diversity system	HWANG, CHAN-SOO
10830954	Not Issued	71	04/23/2004	Method and apparatus for scheduling multiple users in a mobile communication system using multiple transmit/receive antennas	HWANG, CHAN-SOO
10891613	Not Issued	93	07/15/2004	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING PREAMBLE SEQUENCE IN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING COMMUNICATION SYSTEM USING PLURALITY OF TRANSMISSION ANTENNAS	HWANG, CHAN-SOO
10972034	Not Issued	30	10/22/2004	Communication method in an FH- OFDM cellular system	HWANG, CHAN-SOO
10973372	Not Issued	30	10/26/2004	ICI cancellation method for an OFDM system	HWANG, CHAN-SOO
10982581	Not Issued	30	11/05/2004	Apparatus and method for canceling interference signal in an orthogonal frequency division multiplexing system using multiple antennas	HWANG, CHAN-SOO
10982582	Not Issued	30 、	11/05/2004	Apparatus and method for canceling interference signal in an orthogonal frequency division multiplexing system using multiple antennas	HWANG, CHAN-SOO
<u>10985515</u>	Not Issued	30	11/10/2004	Apparatus and method for canceling interference signal in an orthogonal frequency division multiplexing	HWANG, CHAN-SOO

				system using multiple antennas	
10993113	Not Issued	30	11/19/2004	Apparatus and method for generating a preamble sequence in an orthogonal frequency division multiplexing communication system	HWANG, CHAN-SOO
<u>10996699</u>	Not Issued	41	11/24/2004	Method for allocating subchannels in an OFDMA mobile communication system	HWANG, CHAN-SOO
11020285	Not Issued	30	12/23/2004	Differential space-time block coding apparatus using eight or less transmit antennas	HWANG, CHAN-SOO
11020804	Not Issued	30	12/23/2004	Space-time block coding method using auxiliary symbol	HWANG, CHAN-SOO
11035843	Not Issued	41	01/14/2005	Pilot-based channel estimation method for MC-CDMA system using frequency interleaving	HWANG, CHAN-SOO
11078157	Not Issued	30	03/11/2005	Pilot designing method in an uplink OFDMA system	HWANG, CHAN-SOO
11110037	Not Issued	30	04/20/2005	Apparatus and method for channel estimation in an orthogonal frequency division multiplexing cellular communication system using multiple transmit antennas	HWANG, CHAN-SOO
11188056	Not Issued	30	07/22/2005	Method for transmitting a signal using a precise adaptive modulation and coding scheme in a frequency hopping-orthogonal frequency division multiple access communication system	HWANG, CHAN-SOO
11202573	Not Issued	30	08/12/2005	Method of transmitting and receiving preamble sequences in an orthogonal frequency division multiplexing communication system using multiple input multiple output scheme	HWANG, CHAN-SOO
11205931	Not Issued	30	08/17/2005	Apparatus and method for transmitting data using full-diversity, full-rate STBC	HWANG, CHAN-SOO
11206563	Not Issued	30	08/18/2005	Differential space-time block coding apparatus with high transmission rate and method thereof	HWANG, CHAN-SOO
11213380	Not Issued	30	08/26/2005	Apparatus and method for full- diversity, full-rate space-time block coding for two transmit antennas	HWANG, CHAN-SOO
11228209	Not Issued	30	09/16/2005	Base station identification method for an FH-OFDMA MIMO communication system	HWANG, CHAN-SOO

<u>11274577</u>	Not Issued	30	11/15/2005	Apparatus and method for acquiring synchronization in mobile communication system using OFDM scheme	HWANG, CHAN-SOO
11321546	Not Issued	30	12/29/2005	Adaptive subchannel and bit allocation method using partial channel information feedback in an orthogonal frequency division multiple access communication system	HWANG, CHAN-SOO
11324715	Not Issued	30	01/03/2006	Apparatus and method for detecting a signal in a multiple-input multiple-output mobile communication system	HWANG, CHAN-SOO
11345717	Not Issued	30		Transmission apparatus and method for MIMO system	HWANG, CHAN-SOO
11392433	Not Issued	30	03/29/2006	Random beamforming method for a MIMO system	HWANG, CHAN-SOO
11773257	Not Issued	19	01/01/0001	DATA TRANSMISSION/RECEPTION APPARATUS AND METHOD FOR ACHIEVING BOTH MULTIPLEXING GAIN AND DIVERSITY GAIN IN A MOBILE COMMUNICATION SYSTEM USING SPACE TIME TRELLIS CODE	HWANG, CHAN-SOO

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#### **Inventor Name Search Result**

Your Search was:

Last Name = HWANG First Name = CHAN-SOO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
11804126	Not Issued	19		Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	HWANG, CHAN- SOO
11809317	Not Issued	20		Apparatus and method for transmitting/receiving a pilot sequence in a mobile communication system using space-time trellis code	HWANG, CHAN- SOO
60469251	Not Issued	159		Modified performance criterion for space-time codes on fast fading channels	HWANG, CHAN- SOO
60532238	Not Issued	159		Constrained space time block codes which provide a variety of trade-offs between transmission rate and diversity gain	HWANG, CHAN- SOO
60532246	Not Issued	159		Differential space time-block codes for up to 8 transmit antennas	HWANG, CHAN- SOO
60611545	Not Issued	159	09/20/2004	Base station identification apparatus for frequency hopping based mimo ofdma cellular systems	HWANG, CHAN- SOO

Inventor Search Completed: No Records to Display.

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### **Inventor Name Search Result**

Your Search was:

Last Name = NAM

First Name = SEUNG-HOON

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10165628	7035685	150	06/06/2002	APPARATUS AND METHOD FOR MEASURING ELECTROENCEPHALOGRAM	NAM, SEUNG- HOON
10681937	Not Issued	71	10/09/2003	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	NAM, SEUNG- HOON
10691903	Not Issued	71	10/23/2003	Transmission/reception apparatus for a wireless communication system with three transmission antennas	NAM, SEUNG- HOON
10692894	Not Issued	93	10/24/2003	TRANSMITTER AND RECEIVER PROVIDED IN WIRELESS COMMUNICATION SYSTEM USING FOUR TRANSMITTING ANTENNAS	NAM, SEUNG- HOON
10692896	Not Issued	93	10/24/2003	RECEIVING APPARATUS IN A RADIO COMMUNICATION SYSTEM USING AT LEAST THREE TRANSMITTER ANTENNAS	NAM, SEUNG- HOON
10694197	Not Issued	61	10/27/2003	Apparatus and method for transmitting and receiving data in a mobile communication system using spacetime trellis code	NAM, SEUNG- HOON
10695493	Not Issued	41		Data transmission/reception apparatus and method for achieving both multiplexing gain and diversity gain in a mobile communication system using space-time trellis code	HOON
10695579	Not Issued	71	10/28/2003	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING A PILOT SEQUENCE IN A MOBILE COMMUNICATION SYSTEM USING SPACE-TIME TRELLIS	NAM, SEUNG- HOON

	<u> </u>	Ĺ		CODE	
10726118	Not Issued	71	12/02/2003	Apparatus and method for performing channel estimation in an orthogonal frequency division multiplexing (OFDM) system using multiple antennas	NAM, SEUNG- HOON
10752962	Not Issued	61	01/07/2004	Wireless communication apparatus and method using multi- transmission/reception antenna system	NAM, SEUNG- HOON
10756073	Not Issued	51	01/12/2004	Method and apparatus for estimating a signal sequence in a MIMO-OFDM mobile communication system	NAM, SEUNG- HOON
10771494	Not Issued	71	02/04/2004	Apparatus and method for transmitting/receiving differential STBC using channel power	NAM, SEUNG- HOON
10972034	Not Issued	30	10/22/2004	Communication method in an FH- OFDM cellular system	NAM, SEUNG- HOON
10973372	Not Issued	30	10/26/2004	ICI cancellation method for an OFDM system	NAM, SEUNG- HOON
10996699	Not Issued	41	11/24/2004	Method for allocating subchannels in an OFDMA mobile communication system	NAM, SEUNG- HOON
11020285	Not Issued	30	12/23/2004	Differential space-time block coding apparatus using eight or less transmit antennas	NAM, SEUNG- HOON
11020804	Not Issued	30	12/23/2004	Space-time block coding method using auxiliary symbol	NAM, SEUNG- HOON
11075347	Not Issued	30		Method for deciding signal detection order in mobile communication system	NAM, SEUNG- HOON
11078157	Not Issued	30	03/11/2005	Pilot designing method in an uplink OFDMA system	NAM, SEUNG- HOON
11130484	Not Issued	30	05/17/2005	Dynamic subchannel and bit allocation in a multiuser-MIMO/OFDMA system	NAM, SEUNG- HOON
11130942	Not Issued	30	05/17/2005	Beamforming method for an SDM/MIMO system	NAM, SEUNG- HOON
11181147	Not Issued	30	07/14/2005	Method for feeding back antenna shuffling information in a multiple-input multiple-output system using a multiple space-time block coding technique	NAM, SEUNG- HOON
11202573	Not Issued	30			NAM, SEUNG- HOON

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			i	frequency division multiplexing communication system using multiple input multiple output scheme	
11205931	Not Issued	30	08/17/2005	Apparatus and method for transmitting data using full-diversity, full-rate STBC	NAM, SEUNG- HOON
11206563	Not Issued	30	08/18/2005	Differential space-time block coding apparatus with high transmission rate and method thereof	NAM, SEUNG- HOON
11213380	Not Issued	30	08/26/2005	Apparatus and method for full- diversity, full-rate space-time block coding for two transmit antennas	NAM, SEUNG- HOON
11228209	Not Issued	30	09/16/2005	Base station identification method for an FH-OFDMA MIMO communication system	NAM, SEUNG- HOON
11235039	Not Issued	30	09/26/2005	Method and apparatus for transmitting/receiving data in a cellular communication system	NAM, SEUNG- HOON
11235395	Not Issued	30		Transmission method for OFDM-MIMO communication system	NAM, SEUNG- HOON
11264186	Not Issued	30	11/01/2005	MIMO system and method	NAM, SEUNG- HOON
11264308	Not Issued	30	11/01/2005	Apparatus and method for transmitting and receiving data using space-time block coding	NAM, SEUNG- HOON
11264710	Not Issued	30 .	11/01/2005	Apparatus and method for transmitting and receiving data using space-time block coding	NAM, SEUNG- HOON
11266793	Not Issued	30		Apparatus and method for space-time-frequency block coding	NAM, SEUNG- HOON
11280702	Not Issued	30	11/16/2005	Multiple antenna communication system using automatic repeat request error correction scheme	NAM, SEUNG- HOON
11321546	Not Issued	30	12/29/2005	Adaptive subchannel and bit allocation method using partial channel information feedback in an orthogonal frequency division multiple access communication system	NAM, SEUNG- HOON
11328268	Not Issued	30	01/09/2006	Apparatus and method for space-time frequency block coding in a wireless communication system	NAM, SEUNG- HOON
11332531	Not Issued	30	01/13/2006	Method for transmitting and receiving preamble sequences in an orthogonal frequency division multiplexing	NAM, SEUNG- HOON

·				communication system using a multiple input multiple output scheme	
11332660	Not Issued	30		Method for transmitting broadcast channel in a cellular wireless communication system	NAM, SEUNG- HOON
11345717	Not Issued	30		Transmission apparatus and method for MIMO system	NAM, SEUNG- HOON
11370803	Not Issued	30	03/09/2006	Transmitting/receiving apparatus and method in a closed-loop MIMO system	NAM, SEUNG- HOON
11392407.	Not Issued	25		Apparatus and method for scheduling resources in a multiantenna system	NAM, SEUNG- HOON
<u>11416556</u>	Not Issued	160	05/03/2006	Subcarrier-wise antenna/stream mapping for spatial multiplexing	NAM, SEUNG- HOON
11507285	Not Issued	25	08/21/2006	Signal detection method for MIMO communication system employing spatial multiplexing	NAM, SEUNG- HOON
11523278	Not Issued	30	09/18/2006	Apparatus and method for extending number of antennas in a wireless communication system using multiple antennas	NAM, SEUNG- HOON
11523279	Not Issued	30	09/18/2006	Apparatus and method for calibrating channel in radio communication system using multiple antennas	NAM, SEUNG- HOON
11527981	Not Issued	25	09/27/2006	System and method for transmitting/receiving signal in mobile communication system using multiple input multiple output scheme	NAM, SEUNG- HOON
11542858	Not Issued	30	10/04/2006	Apparatus and method for transmitting/receiving signal in a communication system using a plurality of transmit antennas	NAM, SEUNG- HOON
11601049	Not Issued	25	11/17/2006	Apparatus and method for eliminating multi-user interference	NAM, SEUNG- HOON
11603651	Not Issued	20	11/22/2006	Apparatus and method for determining transmit/receive antenna in communication system using multiple antennas	NAM, SEUNG- HOON
11603652	Not Issued	20	11/22/2006	Method and system for controlling data rate in a communication system	NAM, SEUNG- HOON

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### **Inventor Name Search Result**

Your Search was:

Last Name = NAM

First Name = SEUNG-HOON

Application#	Patent#	Status	Date Filed	Title	Inventor Name
11650357	Not Issued	25	01/05/2007	Apparatus and method for communicating data in hybrid diversity mode in broadband wireless communication system	NAM, SEUNG- HOON
11650470	Not Issued	16	01/08/2007	Optimum perturbation apparatus and method in a multi-antenna multi-user communication system	NAM, SEUNG- HOON
11702432	Not Issued	20	02/05/2007	Apparatus and method for determining beamforming vector in a codebook-based beamforming system	NAM, SEUNG- HOON
11702906	Not Issued	17		Transmitting apparatus and method in an orthogonal frequency division multiplexing system	
11716343	Not Issued	20	03/09/2007	Apparatus and method for detecting a signal in a communication system using Multiple Input Multiple Output scheme	NAM, SEUNG- HOON
11777361	Not Issued	19	01/01/0001	APPARATUS AND METHOD FOR SELECTING CODING SCHEME IN A MIMO SYSTEM	NAM, SEUNG- HOON
11804126	Not Issued	19	05/17/2007	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	NAM, SEUNG- HOON
11809317	Not Issued	20	05/31/2007	Apparatus and method for transmitting/receiving a pilot sequence in a mobile communication system using space-time trellis code	NAM, SEUNG- HOON
11809571	Not Issued	19	06/01/2007	Apparatus and method for transmitting and receiving data using space-time block coding	NAM, SEUNG- HOON

11809671	Not Issued	19		Apparatus and method for transmitting and receiving data using space-time block coding	NAM, SEUNG- HOON
60532238	Not Issued	159	12/23/2003	Constrained space time block codes which provide a variety of trade-offs between transmission rate and diversity gain	NAM, SEUNG- HOON
60532246	Not Issued	159		Differential space time-block codes for up to 8 transmit antennas	NAM, SEUNG- HOON
60611545	Not Issued	159	09/20/2004	Base station identification apparatus for frequency hopping based mimo ofdma cellular systems	NAM, SEUNG- HOON
60612807	Not Issued	159	09/24/2004	Wireless communication apparatus and method for multiple transmit and receive antenna system using orthogonal frequency division multiplexing	NAM, SEUNG- HOON
60624274	Not Issued	159	11/02/2004	Antenna grouping for 4 transmitantenna rate 2STC and antenna grouping for the space time codes utilizing both spatial diversity and multiplexing gain	NAM, SEUNG- HOON
60677113	Not Issued	159		Subcarrier-wise antenna/stream mapping for spatial multiplexing	NAM, SEUNG- HOON
60739039	Not Issued	159		Method for controlling data rate in closed-loop MIMO system	NAM, SEUNG- HOON
60739081	Not Issued	159		Method of selecting antenna in closed-loop (CL)MIMO system	NAM, SEUNG- HOON

Inventor Search Completed: No Records to Display.

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### **Inventor Name Search Result**

Your Search was:

Last Name = CHUNG First Name = JAE-HAK

Application#	Patent#	Status	Date Filed	Title	Inventor Name	
10489376	Not Issued	30	03/12/2004	Method and apparatus for transferring channel information in ofdm communications	CHUNG, JAE- HAK	
10546081	Not Issued	30	06/30/2006	Method of reducing papr in multiple antenna ofdm communication system and multiple antenna ofdm communication system using the method	CHUNG, JAE- HAK	
10650857	7113808	150	08/29/2003	APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING SIGNALS USING MULTI-ANTENNAS	CHUNG, JAE- HAK	
10674735	Not Issued	93	09/30/2003	APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING SIGNALS USING MULTIPLE ANTENNAS IN MOBILE COMMUNICATION SYSTEMS	CHUNG, JAE- HAK	
10681937	Not Issued	71	10/09/2003	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	CHUNG, JAE- HAK	
10691903	Not Issued	71	10/23/2003	Transmission/reception apparatus for a wireless communication system with three transmission antennas	CHUNG, JAE- HAK	
10692894	Not Issued	93		TRANSMITTER AND RECEIVER PROVIDED IN WIRELESS COMMUNICATION SYSTEM USING FOUR TRANSMITTING ANTENNAS	CHUNG, JAE- HAK	
10692896	Not Issued	93	10/24/2003	RECEIVING APPARATUS IN A RADIO COMMUNICATION SYSTEM USING AT LEAST THREE TRANSMITTER	CHUNG, JAE- HAK	

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10694197	Not	61	10/27/2002		CHING IAE
10094197	Issued	01	10/2//2003	Apparatus and method for transmitting and receiving data in a mobile communication system using space-time trellis code	CHUNG, JAE- HAK
10695493	Not Issued	41	10/28/2003	Data transmission/reception apparatus and method for achieving both multiplexing gain and diversity gain in a mobile communication system using space-time trellis code	CHUNG, JAE- HAK
<u>10695579</u>	Not Issued	71	10/28/2003		CHUNG, JAE- HAK
10756073	Not Issued	51	01/12/2004	Method and apparatus for estimating a signal sequence in a MIMO-OFDM mobile communication system	CHUNG, JAE- HAK
10771494	Not Issued	71	02/04/2004	Apparatus and method for transmitting/receiving differential STBC using channel power	CHUNG, JAE- HAK
10830360	Not Issued	30	04/22/2004	Method and apparatus for determining a shuffling pattern based on a minimum signal to noise ratio in a double space-time transmit diversity system	CHUNG, JAE- HAK
10830954	Not Issued	71	04/23/2004	Method and apparatus for scheduling multiple users in a mobile communication system using multiple transmit/receive antennas	CHUNG, JAE- HAK
10920785	Not Issued	161	08/18/2004	Apparatus and method for scheduling resource in a multiuser MIMO radio communication system	CHUNG, JAE- HAĶ
10972034	Not Issued	30	10/22/2004	Communication method in an FH- OFDM cellular system	CHUNG, JAE- HAK
10988876	Not Issued	71	11/15/2004	Method for assigning channels based on spatial division multiplexing in an orthogonal frequency division multiplexing system with multiple antennas	CHUNG, JAE- HAK
10988947	Not Issued	41	11/15/2004	Method for grouping transmission antennas in mobile communication system including multiple transmission/reception antennas	CHUNG, JAE- HAK
10996699	Not	41	11/24/2004	Method for allocating subchannels in	CHUNG, JAE-

	Issued			an OFDMA mobile communication system	НАК
11003221	Not Issued	30	12/03/2004	Constellation-rotating orthogonal space-time block coding technique	CHUNG, JAE- HAK
11020285	Not Issued	30	12/23/2004	Differential space-time block coding apparatus using eight or less transmit antennas	CHUNG, JAE- HAK
11020804	Not Issued	3.0		Space-time block coding method using auxiliary symbol	CHUNG, JAE- HAK
11035843	Not Issued	41	01/14/2005	Pilot-based channel estimation method for MC-CDMA system using frequency interleaving	CHUNG, JAE- HAK
11075347	Not Issued	30	03/08/2005	Method for deciding signal detection order in mobile communication system	CHUNG, JAE- HAK
11078157	Not Issued	30	03/11/2005	Pilot designing method in an uplink OFDMA system	CHUNG, JAE- HAK
11130942	Not Issued	30	05/17/2005	Beamforming method for an SDM/MIMO system	CHUNG, JAE- HAK
11187476	Not Issued	30	07/22/2005	Method for estimating maximum likelihood frequency offset in mobile communication system in fast rayleigh fading channel environment	CHUNG, JAE- HAK
11202573	Not Issued	30	08/12/2005	Method of transmitting and receiving preamble sequences in an orthogonal frequency division multiplexing communication system using multiple input multiple output scheme	CHUNG, JAE- HAK
11205931	Not Issued	30	08/17/2005	Apparatus and method for transmitting data using full-diversity, full-rate STBC	CHUNG, JAE- HAK
11206563	Not Issued	30	08/18/2005	Differential space-time block coding apparatus with high transmission rate and method thereof	CHUNG, JAE- HAK
11213380	Not Issued	30	08/26/2005	Apparatus and method for full- diversity, full-rate space-time block coding for two transmit antennas	CHUNG, JAE- HAK
11228209	Not Issued	30	09/16/2005	Base station identification method for an FH-OFDMA MIMO communication system	CHUNG, JAE- HAK
11264186	Not Issued	30	11/01/2005	MIMO system and method	CHUNG, JAE- HAK
11264308	Not Issued	30	11/01/2005	Apparatus and method for transmitting and receiving data using space-time block coding	CHUNG, JAE- HAK

11264710	Not Issued	30	11/01/2005	Apparatus and method for transmitting and receiving data using space-time block coding	CHUNG, JAE- HAK
11266793	Not Issued	30	11/04/2005	Apparatus and method for space-time-frequency block coding	CHUNG, JAE- HAK
11274662	Not Issued	30	11/15/2005	Method and apparatus for transmitting/receiving data in a multiple-input multiple-output communication system	CHUNG, JAE- HAK
11280702	Not Issued	30	11/16/2005	Multiple antenna communication system using automatic repeat request error correction scheme	CHUNG, JAE- HAK
11291066	Not Issued	30	11/30/2005	Method for adaptively allocating frequency resource in communication system using orthogonal frequency division multiple access scheme	CHUNG, JAE- HAK
11321546	Not Issued	30	12/29/2005	Adaptive subchannel and bit allocation method using partial channel information feedback in an orthogonal frequency division multiple access communication system	CHUNG, JAE- HAK
11328268	Not Issued	30	01/09/2006	Apparatus and method for space-time frequency block coding in a wireless communication system	CHUNG, JAE- HAK
11332531	Not Issued	30	01/13/2006	Method for transmitting and receiving preamble sequences in an orthogonal frequency division multiplexing communication system using a multiple input multiple output scheme	CHUNG, JAE- HAK
11332660	Not Issued	30	01/13/2006	Method for transmitting broadcast channel in a cellular wireless communication system	CHUNG, JAE- HAK
11345717	Not Issued	30	02/02/2006	Transmission apparatus and method for MIMO system	CHUNG, JAE- HAK
11392407	Not Issued	25	03/29/2006	Apparatus and method for scheduling resources in a multiantenna system	CHUNG, JAE- HAK
11592385	Not Issued	30		Communication initialization method at medium access control layer in a cognitive radio wireless communication system	CHUNG, JAE- HAK
11593296	Not Issued	30	11/06/2006	Method of partitioning resources in a cognitive radio wireless communication system and system supporting the same	CHUNG, JAE- HAK

11593301	Not Issued	30		CHUNG, JAE- HAK
11593305	Not Issued	25	1 - 1	CHUNG, JAE- HAK

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### **Inventor Name Search Result**

Your Search was:

Last Name = CHUNG First Name = JAE-HAK

Application#	Patent#	Status	Date Filed	Title .	Inventor Name		
11711611	Not Issued	20	02/28/2007	Explicit outband signaling method in a wireless network supporting cognitive radio technology	CHUNG, JAE-HAK		
11804126	Not Issued	19	05/17/2007	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	CHUNG, JAE-HAK		
11809317	Not Issued	20	05/31/2007	Apparatus and method for transmitting/receiving a pilot sequence in a mobile communication system using space-time trellis code	CHUNG, JAE-HAK		
11809571	Not Issued	19	06/01/2007	Apparatus and method for transmitting and receiving data using space-time block coding	CHUNG, JAE-HAK		
11809671	Not Issued	19	06/01/2007	Apparatus and method for transmitting and receiving data using space-time block coding	CHUNG, JAE-HAK		
60495916	Not Issued	159	08/18/2003	Transmission scheduling in multi- user MIMO cellular systems	CHUNG, JAE-HAK		
60532238	Not Issued	159	12/23/2003	Constrained space time block codes which provide a variety of trade-offs between transmission rate and diversity gain	CHUNG, JAE-HAK		
60532246	Not Issued	159		Differential space time-block codes for up to 8 transmit antennas	CHUNG, JAE-HAK		
60611545	Not Issued	159	09/20/2004	Base station identification apparatus for frequency hopping based mimo ofdma cellular systems	CHUNG, JAE-HAK		
60624274	Not Issued	159	·	Antenna grouping for 4 transmitantenna rate 2STC and antenna grouping for the space time codes	CHUNG, JAE-HAK		

İ				l I	utilizing both spatial diversity and multiplexing gain	
	60628033	Not Issued	159		Multi-channel selection diversity (MCSD) for Gaussian MIMO broadcast channels	CHUNG, JAE-HAK

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### **Inventor Name Search Result**

Your Search was:

Last Name = KIM

First Name = YUNG-SOO

Application#	Patent#	Status	Date Filed	Title	Inventor Name	
08365215	Not Issued	161	12/28/1994		KIM, YUNG- SOO	
08663745	5805478	150	06/14/1996	DATA DETECTION METHOD AND APPARATUS IN DATA STORAGE DEVICE	KIM, YUNG- SOO	
08744458	6002730	150		METHOD FOR DETECTING DATA AND DEVICE THEREFOR OF DATA STORING UNIT	KIM, YUNG- SOO	
09016932	5973553	150	02/02/1998	APPARATUS FOR REMOVING ADDITIVE DISTURBANCE FROM DATA CHANNEL AND METHOD THEREFOR	KIM, YUNG- SOO	
09109408	6163517	150	07/02/1998	SIGNAL DETECTION METHOD OF DATA RECORDING/REPRODUCING APPARATUS AND DEVICE	KIM, YUNG- SOO	
09225505	6292816	150	01/06/1999	NONLINEAR EQUALIZING APPARATUS	KIM, YUNG- SOO	
09286292	6335949	150	04/06/1999	NON-LINEAR SIGNAL RECEIVER	KIM, YUNG- SOO	
09349731	<u>6459679</u>	150	07/08/1999	METHOD AND APPARATUS FOR SYNCHRONIZING ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) RECEIVER	KIM, YUNG- SOO	
09576767	6952394	150	05/24/2000	METHOD FOR TRANSMITTING AND RECEIVING ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SIGNAL AND APPARATUS THEREFOR	KIM, YUNG- SOO	
10102805	7072419	150	03/22/2002	DATA COMMUNICATION APPARATUS AND METHOD BASED ON ORTHOGONAL	KIM, YUNG- SOO	

				FREQUENCY DIVISION MULTIPLE ACCESS	
10225420	7206353	150	08/22/2002	MOBILE COMMUNICATION APPARATUS INCLUDING AN ANTENNA ARRAY AND MOBILE COMMUNICATION METHOD	KIM, YUNG- SOO
10277734	7050776	150	10/23/2002	MOBILE COMMUNICATION APPARATUS INCLUDING TRANSCEIVING MULTI- ANTENNAS AND MOBILE COMMUNICATION METHOD	KIM, YUNG- SOO
10472271	Not Issued	95	09/22/2003	DATA COMMUNICATION APPARATUS AND METHOD BASED ON ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS	KIM, YUNG- SOO
10489376	Not Issued	30	03/12/2004	Method and apparatus for transferring channel information in ofdm communications	KIM, YUNG- SOO
10546081	Not Issued	30	06/30/2006	Method of reducing papr in multiple antenna ofdm communication system and multiple antenna ofdm communication system using the method	KIM, YUNG- SOO
10606430	Not Issued	41	06/25/2003	Orthogonal frequency division multiplexing communication method and apparatus adapted to channel characteristics	KIM, YUNG- SOO
10607106	Not Issued	61		Method and apparatus for compensating for the frequency offset in interleaved frequency division multiple access	KIM, YUNG- SOO
10673524	7069009	150	09/29/2003	APPARATUS AND METHOD FOR ALLOCATING RESOURCES OF A VIRTUAL CELL IN AN OFDM MOBILE COMMUNICATION SYSTEM	KIM, YUNG- SOO
10674735	Not Issued	93	09/30/2003	APPARATUS AND METHOD FOR TRANSMITTING AND RECEIVING SIGNALS USING MULTIPLE ANTENNAS IN MOBILE COMMUNICATION SYSTEMS	KIM, YUNG- SOO
10681937	Not Issued	71	10/09/2003	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	KIM, YUNG- SOO

10691903	Not	71	10/23/2003	Transmission/reception apparatus for	KIM, YUNG-
	Issued			a wireless communication system with three transmission antennas	SOO
10692894	Not Issued	93	10/24/2003	TRANSMITTER AND RECEIVER PROVIDED IN WIRELESS COMMUNICATION SYSTEM USING FOUR TRANSMITTING ANTENNAS	KIM, YUNG- SOO
10692896	Not Issued	93	10/24/2003	RECEIVING APPARATUS IN A RADIO COMMUNICATION SYSTEM USING AT LEAST THREE TRANSMITTER ANTENNAS	KIM, YUNG- SOO
10694197	Not Issued	61	10/27/2003	Apparatus and method for transmitting and receiving data in a mobile communication system using space-time trellis code	KIM, YUNG- SOO
10695493	Not Issued	41	10/28/2003	Data transmission/reception apparatus and method for achieving both multiplexing gain and diversity gain in a mobile communication system using space-time trellis code	KIM, YUNG- SOO
10695579	Not Issued	71	10/28/2003	APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING A PILOT SEQUENCE IN A MOBILE COMMUNICATION SYSTEM USING SPACE-TIME TRELLIS CODE	KIM, YUNG- SOO
10718304	Not Issued	30	11/20/2003	Method and apparatus for generating an edge sidelobe canceling signal and uplink communication method and apparatus using the same in an OFDMA system	KIM, YUNG- SOO
10767082	Not Issued	71	01/29/2004	Wireless communication system and method for offering hybrid duplexing technology	KIM, YUNG- SOO
10771494	Not Issued	71		Apparatus and method for transmitting/receiving differential STBC using channel power.	KIM, YUNG- SOO
10840584	Not Issued	71		System and method for channel estimation in an OFDM mobile communication system	KIM, YUNG- SOO
10846465	Not Issued	30	05/14/2004	Transmitting and receiving apparatus and method in an Orthogonal Frequency Division Multiplexing system using an insufficient cyclic prefix	KIM, YUNG- SOO

10909080	Not Issued	71	07/30/2004	Control system and multiple access method in wireless communication	KIM, YUNG- SOO
10924463	Not Issued	30	08/23/2004	Wireless communication apparatus and method for multiple transmit and receive antenna system using multiple codes	KIM, YUNG- SOO
11002843	Not Issued	30	12/02/2004	Apparatus and method for controlling adaptive modulation and coding in an orthogonal frequency division multiplexing communication system	KIM, YUNG- SOO
11020285	Not Issued	30	12/23/2004	Differential space-time block coding apparatus using eight or less transmit antennas	KIM, YUNG- SOO
11020768	Not Issued	30	12/23/2004	Channel coding method and device	KIM, YUNG- SOO
11020804	Not Issued	30	12/23/2004	Space-time block coding method using auxiliary symbol	KIM, YUNG- SOO
11030397	Not Issued	30	01/06/2005	Method of operating a TDD/virtual FDD hierarchical cellular telecommunication system	KIM, YUNG- SOO
11039087	Not Issued	30	01/19/2005	Method of efficiently transmitting data during a handover in a wideband radio access network	KIM, YUNG- SOO
11173626	Not Issued	30	07/01/2005	Symbol synchronization method for OFDM-based wireless communication system	KIM, YUNG- SOO
11262216	Not Issued	30	10/28/2005	Method for uplink scheduling in communication system using frequency hopping-orthogonal frequency division multiple access scheme	KIM, YUNG- SOO
11286728	Not Issued	30	11/25/2005	Method for allocating resources in a multicarrier system and transmission apparatus using the same	KIM, YUNG- SOO
11297994	Not Issued	30	12/09/2005	System and method for mode switching and frequency band switching in a cellular system	KIM, YUNG- SOO
11322121	Not Issued	30	12/29/2005	Relay communication method for an OFDMA-based cellular communication system	KIM, YUNG- SOO
11332660	Not Issued	30	01/13/2006	Method for transmitting broadcast channel in a cellular wireless communication system	KIM, YUNG- SOO
<u>11416556</u>	Not	160	05/03/2006	Subcarrier-wise antenna/stream	KIM, YUNG-

	Issued		*	mapping for spatial multiplexing	soo .
11451880	Not Issued	30		Method for transmitting uplink data during handoff	KIM, YUNG- SOO
11487767	Not Issued	30		Voice packet scheduling method for wireless local area network	KIM, YUNG- SOO
11508049	Not Issued	30		Method for allocating resources in a wireless communication system	KIM, YUNG- SOO
11510042	Not Issued	30			KIM, YUNG- SOO

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Your Search was:

Last Name = KIM

First Name = YUNG-SOO

Application#	Patent#	Status	Date Filed	Title	Inventor Name	
11512920	Not Issued	25		Method of allocating resources and method of receiving the allocated resources in a communication system	KIM, YUNG-SOO	
11516866	Not Issued	30		Method for allocating sub-channel in a mobile communication system using Orthogonal Frequency Division Multiple Access scheme	KIM, YUNG-SOO	
11520198	Not Issued	30	09/13/2006	Communication method and system using time division duplex scheme and frequency division duplex scheme	KIM, YUNG-SOO	
11527981	Not Issued	25		System and method for transmitting/receiving signal in mobile communication system using multiple input multiple output scheme	KIM, YUNG-SOO	
11541749	Not Issued	30	10/02/2006	Method for puncturing a low density parity check code	KIM, YUNG-SOO	
11542858	Not Issued	30		Apparatus and method for transmitting/receiving signal in a communication system using a plurality of transmit antennas	KIM, YUNG-SOO	
11543387	Not Issued	30	10/05/2006	Method and apparatus for detecting signal in a MIMO communication system	KIM, YUNG-SOO	
11543492	Not Issued	25		Apparatus and method for two- dimensional equalization in a communication system using orthogonal frequency division multiple access	KIM, YUNG-SOO	
11601049	Not Issued	25	11/17/2006	Apparatus and method for eliminating multi-user interference	KIM, YUNG-SOO	

11603651	Not Issued	20		Apparatus and method for determining transmit/receive antenna in communication system using multiple antennas	KIM, YUNG-SOO
11603652	Not Issued	20	11/22/2006	Method and system for controlling data rate in a communication system	KIM, YUNG-SOO
11654990	Not Issued	25	01/18/2007	Apparatus and method for transmitting/receiving data in a communication system	KIM, YUNG-SOO
11703266	Not Issued	20	02/07/2007	Apparatus and method for transmitting an uplink signal in a mobile communication system using an OFDMA scheme	KIM, YUNG-SOO
11703520	Not Issued	20		Method for puncturing a low density parity check code	KIM, YUNG-SOO
11703595	Not Issued	20	02/07/2007	Low density parity check code- based hybrid automatic repeat request method	KIM, YUNG-SOO
11706627	Not Issued	20		Method of reporting channel state in mobile communication system	KIM, YUNG-SOO
11706853	Not Issued	20	02/15/2007	System and method for allocating a channel in a communication system	KIM, YUNG-SOO
11708697	Not Issued	20	02/19/2007	Method and system for transmitting data in communication system	KIM, YUNG-SOO
11715167	Not Issued	20		System and method for allocating frequency resource in multi-cell communication system	KIM, YUNG-SOO
11716343	Not Issued	20	03/09/2007	Apparatus and method for detecting a signal in a communication system using Multiple Input Multiple Output scheme	KIM, YUNG-SOO
<u>11770055</u>	Not Issued	17	06/28/2007	APPARATUS AND METHOD FOR CHANNEL FEEDBACK IN A WIRELESS COMMUNICATION SYSTEM	KIM, YUNG-SOO
11804126	Not Issued	19	05/17/2007	Transmitting and receiving apparatus for supporting transmit antenna diversity using space-time block code	KIM, YUNG-SOO
11809317	Not Issued	20	ı	Apparatus and method for transmitting/receiving a pilot sequence in a mobile communication system using	KIM, YUNG-SOO

				space-time trellis code	
60532238	Not Issued	159		Constrained space time block codes which provide a variety of trade-offs between transmission rate and diversity gain	KIM, YUNG-SOO
60532246	Not Issued	159		Differential space time-block codes for up to 8 transmit antennas	KIM, YUNG-SOO
60677113	Not Issued	159	I I	Subcarrier-wise antenna/stream mapping for spatial multiplexing	KIM, YUNG-SOO
60739039	Not Issued	159	1 .	Method for controlling data rate in closed-loop MIMO system	KIM, YUNG-SOO
60739081	Not Issued	159	11/22/2005	Method of selecting antenna in closed-loop (CL)MIMO system	KIM, YUNG-SOO

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